

Recombinant Human Adenosylmethionine Decarboxylase 1, His-tagged

Cat. No. AMD1-2483H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AMD1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	68-334aa
Description	AMD1 is synthesized initially as an inactive proenzyme. The post-translation cleavage follows an unusual pathway, termed non-hydrolytic serinolysis, in which the side chain hydroxyl group of the serine supplies its oxygen atom to form the C-terminus of the beta chain, while the remainder of the serine residue undergoes an oxidative deamination to produce ammonia and the pyruvoyl group blocking the N-terminus of the alpha chain.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT.
Molecular Mass	33.4 kDa (292aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMSSMFV SKRRFILKTC GTTLLLKALV PLLKLARDYS GFDSIQSFFY SRKNFMKPSH QGYPHRNFQE EIEFLNAIFP NGAAYCMGRM NSDCWYLYTL DFPEsrvisQ PDQTLEILMS ELDPAVMDQF YMKDGVtakD VTRESGIRDL IPGSVIDATM FNPCGYSMNG MKSDGTYWTI

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HITPEPEFSY VSFETNLSQT SYDDLIRKVV EVFKPGKFVT TLFVNQSSKC
RTVLASPQKI EGFKRLDCQS AMFNDYNFVF TSFAKKQQQQ QS

Purity >80% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [AMD1 adenosylmethionine decarboxylase 1 \[Homo sapiens \]](#)

Official Symbol AMD1

Synonyms AMD1; adenosylmethionine decarboxylase 1; S adenosylmethionine decarboxylase 1; S-adenosylmethionine decarboxylase proenzyme; SAMDC; S-adenosylmethionine decarboxylase 1; AMD; ADOMETDC; FLJ26964; DKFZp313L1234;

Gene ID [262](#)

mRNA Refseq [NM_001033059](#)

Protein Refseq [NP_001028231](#)

MIM [180980](#)

UniProt ID [P17707](#)

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Chromosome Location	6q21
Pathway	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Cysteine and methionine metabolism, organism-specific biosystem; Cysteine and methionine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of amino acids and derivatives, organism-specific biosystem;
Function	adenosylmethionine decarboxylase activity; adenosylmethionine decarboxylase activity; lyase activity;